

Data

1. ☐ The type of the graphic is adapted to the nature of data (curve, bars, pie, histogram, cloud...);
2. ☐ Approximations/interpolation make sense;
3. ☐ Curves are defined by a sufficient number of points;
4. ☐ The building method of the curve is clear : interpolation (linear, polynomial, regression...);
5. ☐ Confidence intervals are visualized (or given separately);
6. ☐ Steps of histograms are adequate;
7. ☐ Histograms visualize probabilities (from 0 to 1).

Graphical objects

1. ☐ Graphical objects are readable on screen, on printed version (B/W), on video...;
2. ☐ Graphic range is standard, without too similar colors, without green (video);
3. ☐ Graphical axes are well identified and labelled;
4. ☐ Scales and units are explicit;
5. ☐ Curves cross without ambiguity;
6. ☐ Grids help the reader.

Annotations

1. ☐ Axes are labelled by quantities;
2. ☒ Labels of the axis are clear, and self contained;
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Annotations (2)

6. ☐ For bar graphs/histograms order of bars is based on classical ordering (alphabetical, temporal, from the best to the worse) are better than a random order;
7. ☒ Each curve has a legend;
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Information

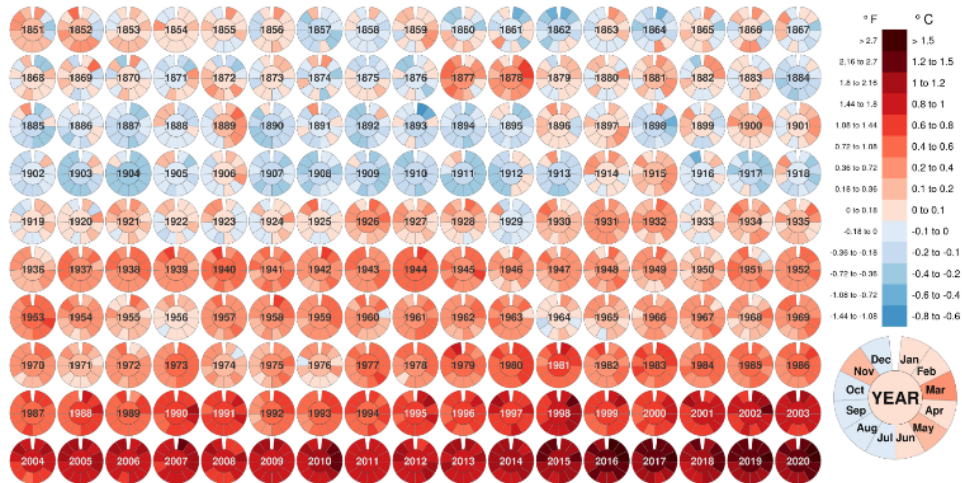
1. ☒ Curves are on the same scale;
2. ☐ The number of curves on a same graph is small (less than 6);
3. ☐ Compare curves on a same graphic;
4. ☐ A curve cannot be removed without reducing the information;
5. ☐ The graphic gives a relevant information to the reader;
6. ☐ If the vertical axis shows averages, it should indicate error bars;
7. ☐ It is not possible to remove any object without modifying the readability of the graphic.

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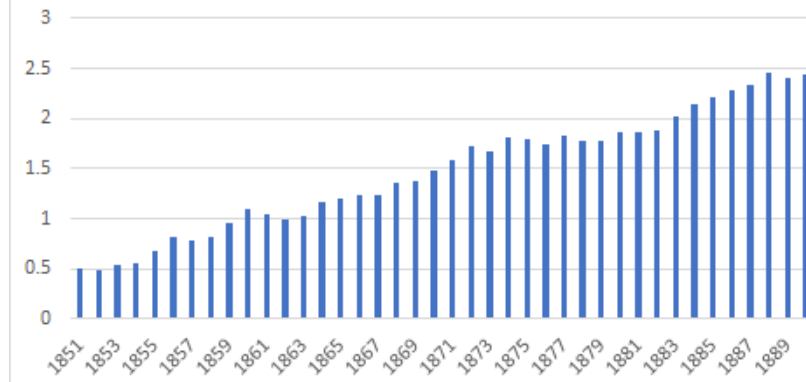
Last but not least : The graphical representation should be elegant

Monthly global mean temperature 1851 to 2020 (compared to 1850-1900 averages)

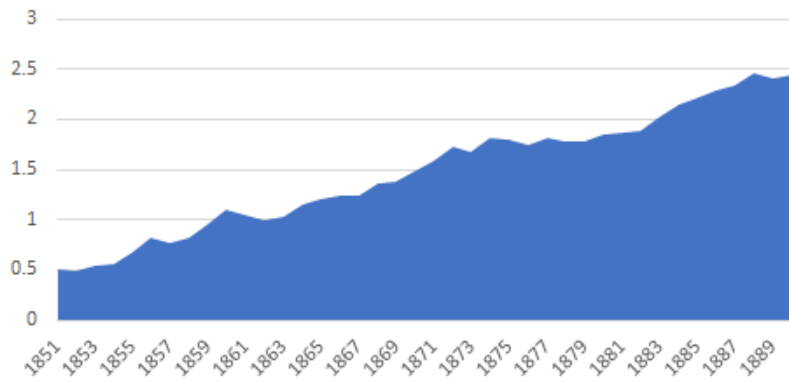


Data: HadCRUT5 - Created by: @neilkaye

Monthly Global Mean temperature
1851-1890 in °C



Monthly Global Mean temperature
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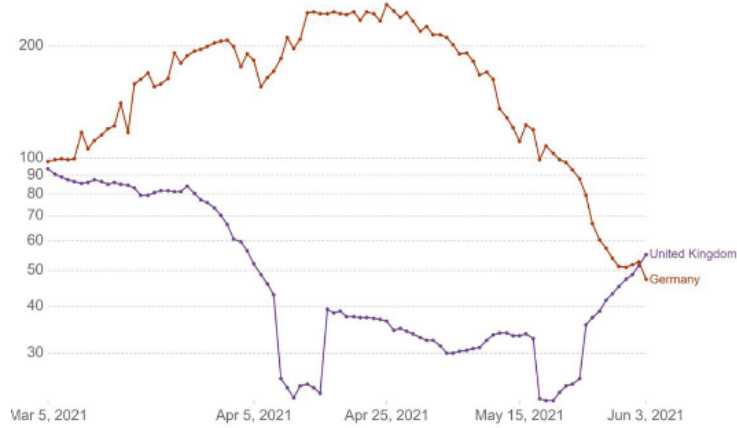
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Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

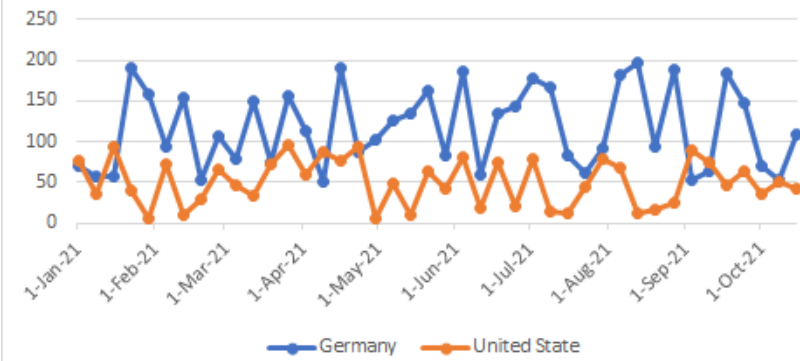
Our World
In Data



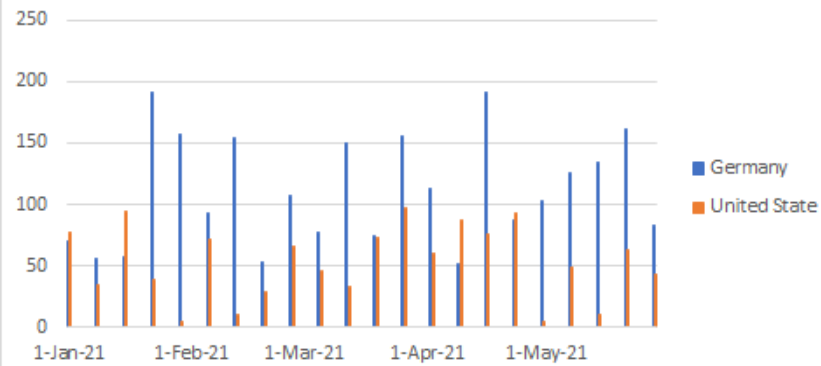
Source: Johns Hopkins University CSSE COVID-19 Data

CC BY

Daily New Confirm COVID-19 cases per million person



Daily New Confirm COVID-19 cases per million person



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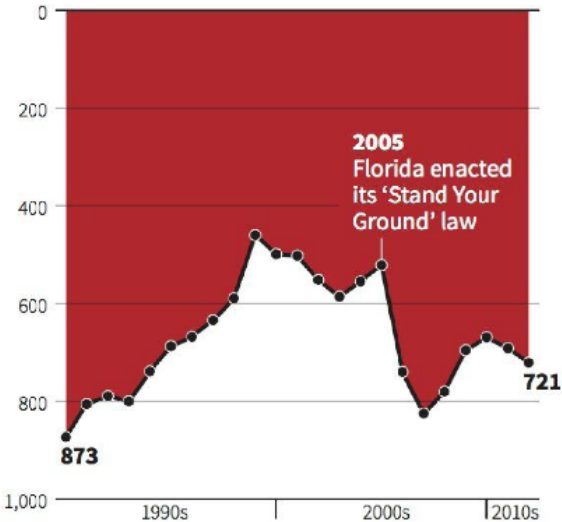
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Gun deaths in Florida

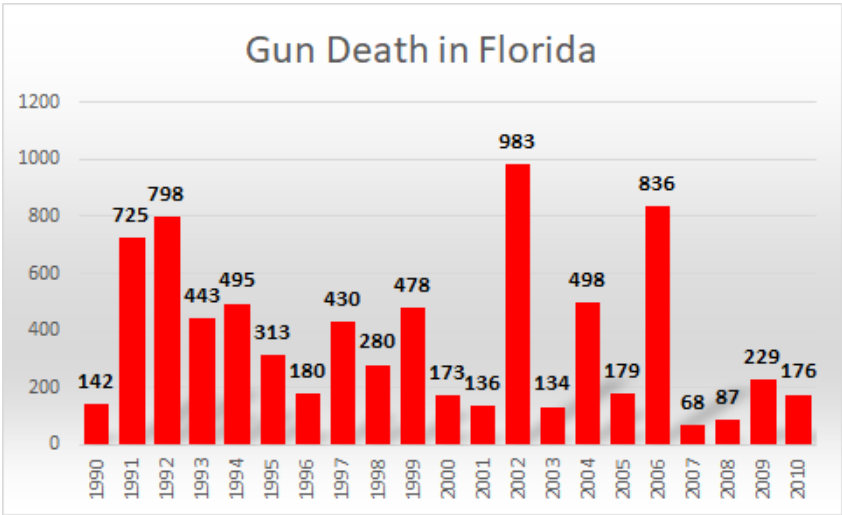
Number of murders committed using firearms



Source: Florida Department of Law Enforcement

C. Chan 16/02/2014

REUTERS



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